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☐ 1: [Nature](#). 1988 Mar 17;332(6161):287-8.**nature**

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The iscom antigen-presenting system.**Morein B.**

Department of Virology, National Veterinary Institute, Uppsala, Sweden.

The immunostimulating complex, or iscom, provides an effective means of presenting antigens to the immune system. Vaccines for influenza, hepatitis B and AIDS are in the offing.

PMID: 3347272 [PubMed - indexed for MEDLINE]

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Potential of the immune response by immunization with antigens in defined viral subunits. [Vaccine. 1987]

The new generation of recombinant viral subunit vaccines. [Biotechnol. 1996]

The iscom: an immunostimulating system. [Immunol Lett. 1990]

Adenovirus vectored vaccines. [Dev Biol Stand. 1994]

Induction of protective immunity against influenza virus in a macaque model: comparison of conventional and iscom vaccines. [J Gen Virol. 1997]

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☐ 1: [J Ultrastruct Mol Struct Res.](#) 1989 Dec;102(3):240-8.

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Quaternary structure of the immunostimulating complex (iscom).

Ozel M, Hoglund S, Gelderblom HR, Morein B.

Robert Koch-Institute of the Federal Health Office, Berlin, Federal Republic of Germany.

Proteins of either HIV-1, hepatitis B, or rabies virus were incorporated with the adjuvant substance Quil A and cholesterol into the immunostimulating complex: iscom. Formation and symmetry of this regular complex were analyzed by electron microscopy. Micellar structures with a diameter of about 12 nm, occasionally with a 7-nm stain-filled center, were formed in a 0.03% water suspension of Quil A. Cavities or holes appeared in the smooth structures of cholesterol upon the addition of Quil A, and after mixing Quil A and cholesterol 1:1 fragile and flattened structures of matrix were produced with a diameter of about 40 nm. By freeze-drying the matrix was preserved as a cage-like, isometric particle. Stable iscom particles composed of Quil A, cholesterol, and selected viral proteins had an approximate diameter of 32 nm. The particles had an uniform, cage-like structure, exhibiting icosahedral symmetry, irrespective of the viral proteins incorporated. Tilting experiments and rotational image analysis indicated that the iscoms were composed of 20 morphological subunits assembled in a pentagonal dodecahedron with a hole on each of the 12 pentagonal faces. The symmetrical shape of the iscom might explain both its remarkable stability and its capacity to efficiently present antigens to the immune system.

PMID: 2634709 [PubMed - indexed for MEDLINE]

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Influenza virus ISCOMs: biochemical characterization. [Vaccine. 1988]

Pseudo-ternary phase diagrams of aqueous mixtures of Quil A, cholesterol and phospholipid prepared by the lipid-film hydration method. [Int J Pharm. 2004]

The requirement of lipids for the formation of immunostimulating complex (iscom). [Biochem Appl Biochem. 1988]

On the structure of immune-stimulating saponin-lipid complexes (iscoms). [Biochim Biophys Acta. 1991]

A comparison of pseudo-ternary diagrams of aqueous mixtures of Quil A, cholesterol and phospholipid prepared by lipid-film hydration and dialysis. [J Pharm Pharmacol. 2004]

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